IN THE ABSTRACT

Abstract

A Digital Filter For I9-Generation, Noise Shaping and Neighbour Channel Suppression

A polyphase filter of order x · N that ~~is building~~ builds N allpass filters of order x · N ~~according to the present invention~~ has a structure of an allpass filter of order x comprising delay elements with a delay <u>of</u> 1 and at least one multiplier, wherein all delay elements with a delay of 1 are replaced by delay elements with a delay of N and the sampling rate of $fS' = fs/N$ with fs being the sampling rate of the input signal. Preferably the multiplier included in the structure of the allpass filter of order x comprises N-time multiplex multiplication coefficients that are used in a predetermined order.

~~(Fig. 1)~~ --